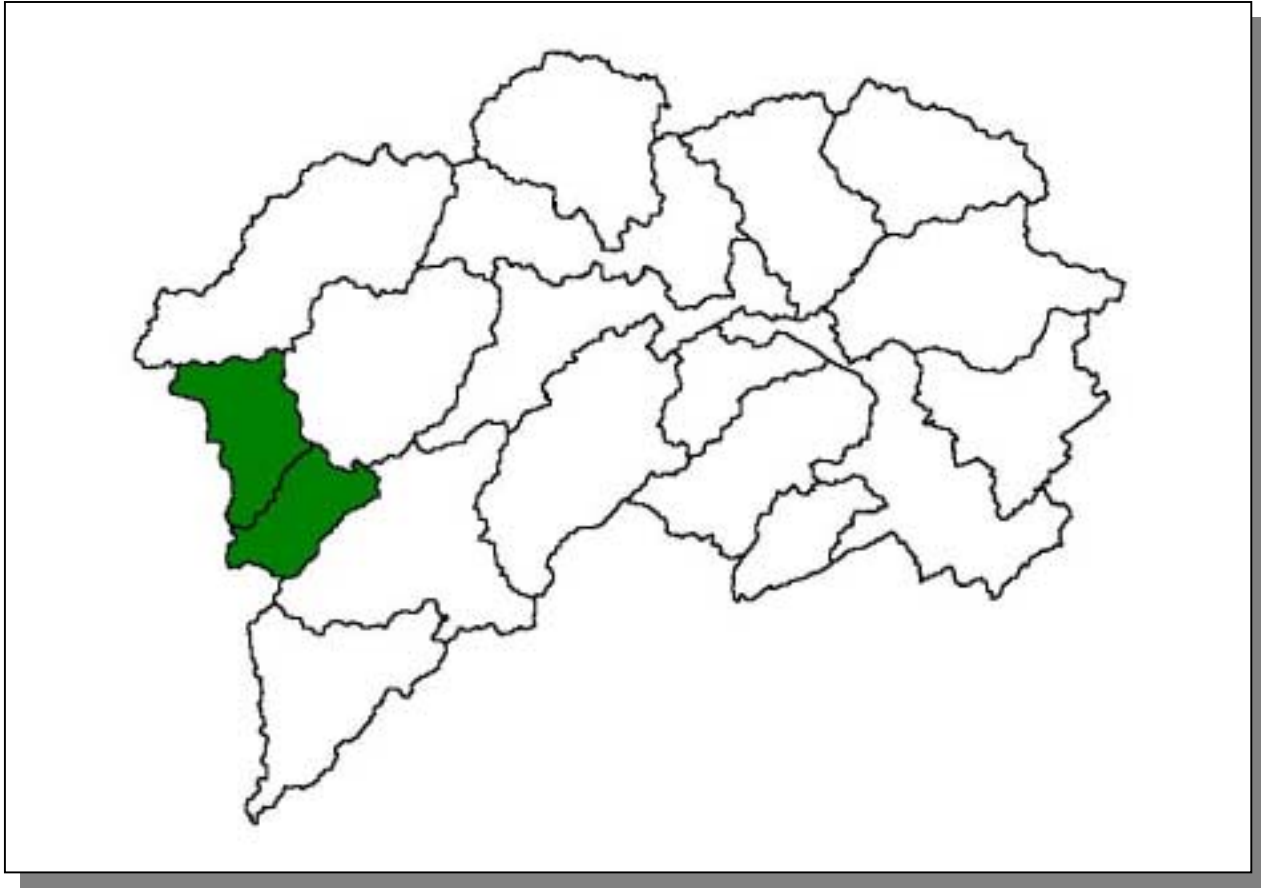
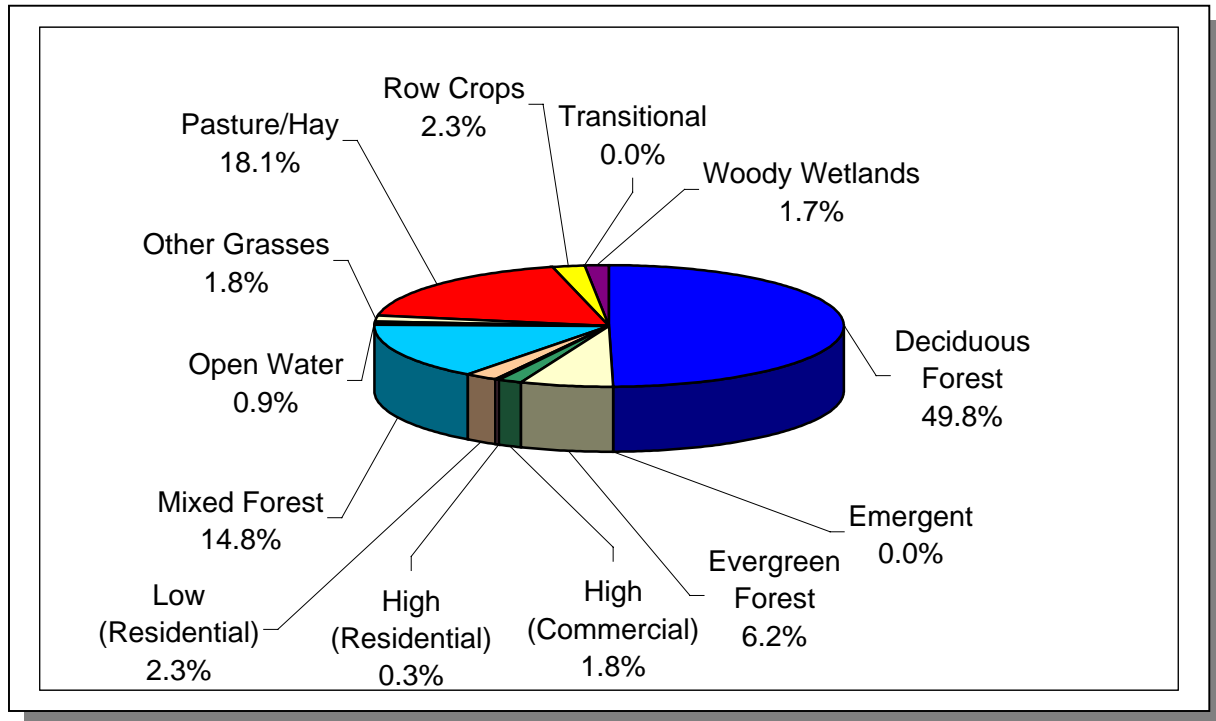


4.2.A. 06010208010.

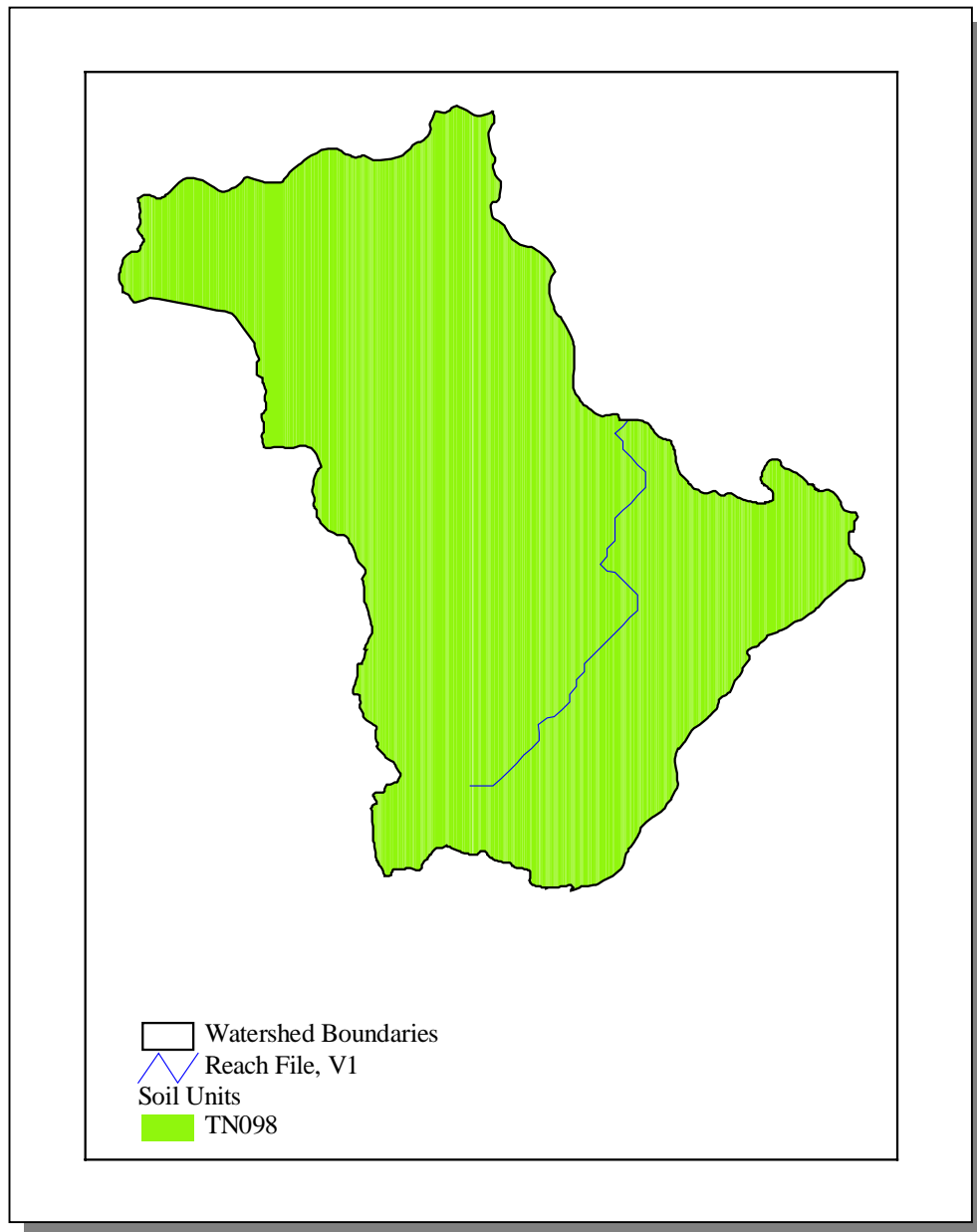


*Figure 4-2. Location of Subwatershed 06010208010. All Emory HUC-14 subwatershed boundaries are shown for reference.*

**4.2.A.i. General Description.**



**Figure 4-3. Land Use Distribution in Subwatershed 06010208010.** More information is provided in Emory-Emory-Appendix IV.



**Figure 4-4. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 06010208010.**

| STATSGO<br>MAP UNIT ID | PERCENT<br>HYDRIC | HYDROLOGIC<br>GROUP | PERMEABILITY<br>(in/hour) | SOIL<br>pH | ESTIMATED<br>SOIL TEXTURE | SOIL<br>ERODIBILITY |
|------------------------|-------------------|---------------------|---------------------------|------------|---------------------------|---------------------|
| TN098                  | 1.00              | C                   | 3.98                      | 4.82       | Loam                      | 0.32                |

**Table 4-2. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 6010208010.** More details are provided in Emory-Emory-Appendix IV.

|            | COUNTY POPULATION |           |                          | ESTIMATED POPULATION IN WATERSHED |       | % CHANGE |
|------------|-------------------|-----------|--------------------------|-----------------------------------|-------|----------|
| County     | 1990              | 1997 Est. | Portion of Watershed (%) | 1990                              | 1997  |          |
| Cumberland | 34,736            | 43,217    | 7.01                     | 2,434                             | 3,028 | 24.4     |

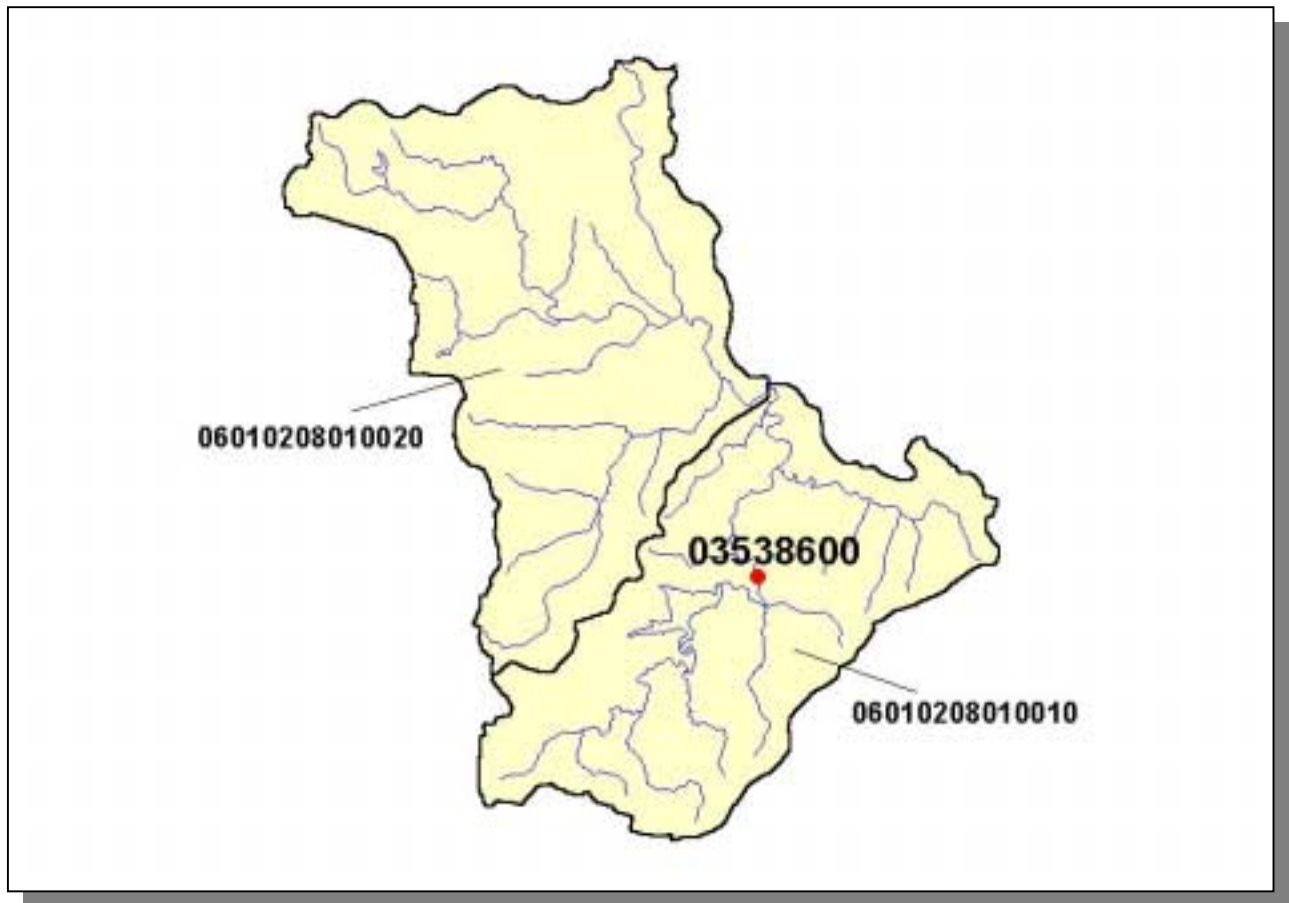
*Table 4-3. Population Estimates in Subwatershed 06010208010.*

|                 |            |            | NUMBER OF HOUSING UNITS |              |             |       |
|-----------------|------------|------------|-------------------------|--------------|-------------|-------|
| Populated Place | County     | Population | Total                   | Public Sewer | Septic Tank | Other |
| Crossville      | Cumberland | 6,930      | 3,054                   | 2,504        | 541         | 9     |

*Table 4-4. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 06010208010.*



*Figure 4-5. Location of Historical Streamflow Data Collection Sites in Subwatershed 06010208010. Subwatershed 06010208010010 and 06010208010020 boundaries are shown for reference. More information is provided in Emory-Emory-Appendix IV.*



**Figure 4-6. Location of STORET Monitoring Sites in Subwatershed 06010208010.** Subwatershed 06010208010 and 06010208020 boundaries are shown for reference. More information is provided in Emory-Emory-Appendix IV.

4.2.A.ii Point Source Contributions.



**Figure 4-7. Location of Active Point Source Facilities (Individual Permits) in Subwatershed 06010208010.** Subwatershed 06010208010010 and 06010208010020 boundaries are shown for reference. More information, including the names of facilities, is provided in Emory-Emory-Appendix IV.



**Figure 4-8. Location of ARAP Sites (Individual Permits) in Subwatershed 06010208010.** Subwatershed 0601020801010 and 06010208010020 boundaries are shown for reference. More information is provided in Emory-Emory-Appendix IV.



**Figure 4-9. Location of Wetland Impact Sites in Subwatershed 06010208010.** Impact sites are from ARAP database. Subwatershed 06010208010010 and 06010208010020 boundaries are shown for reference. More information is provided in Emory-Emory-Appendix IV.

**4.2 A.ii.a.** Dischargers to Waterbodies Listed on the 1998 303(d) List.

There is one NPDES facility discharging to water bodies listed on the 1998 303(d) list in Subwatershed 06010208010:

- TN0024996 discharges to the Obed River @ RM 38.6





**Figure 4-10. Location of NPDES Dischargers to Water Bodies Listed on the 1998 303(d) List in Subwatershed 06010208010.** Subwatershed 06010208010010 and 06010208010020 boundaries are shown for reference. The names of facilities are provided in Emory-Emory-Appendix IV.

| PERMIT #  | 7Q10 | 1Q20 | 30Q2 | QDESIGN |
|-----------|------|------|------|---------|
| TN0024996 | 0    | 0    | 0    | 3.5     |

**Table 4-5. Receiving Stream Flow Information for NPDES Dischargers to Water Bodies Listed on the 1998 303(d) List in Subwatershed 06010208010.** Data are in million gallons per day (MGD). Data were calculated using data in Flow Duration and Low Flows of Tennessee Streams Through 1992.

| PERMIT #  | CBOD <sub>5</sub> | NH <sub>3</sub> | FECAL | WET |
|-----------|-------------------|-----------------|-------|-----|
| TN0024996 | X                 | X               | X     | X   |

**Table 4-6. Monitoring Requirements for NPDES Dischargers to Water Bodies Listed on the 1998 303(d) List in Subwatershed 06010208010.**

| PERMIT #  | TSS | NH <sub>3</sub> | CBOD <sub>5</sub> | FECAL | BYPASS | DURATION        |
|-----------|-----|-----------------|-------------------|-------|--------|-----------------|
| TN0024996 | 1   | 5               | 1                 | 1     | 1      | 01/1995-12/1999 |

**Table 4-7. Number of Permit Violations Based on DMR Data for NPDES Dischargers to Water Bodies Listed on the 1998 303(d) List in Subwatershed 06010208010.**

**4.2.A.iii. Nonpoint Source Contributions.**

| LIVESTOCK (COUNTS) |          |        |          |      |       |
|--------------------|----------|--------|----------|------|-------|
| Beef Cow           | Milk Cow | Cattle | Chickens | Hogs | Sheep |
| 1,175              | 285      | 2,876  | 5        | 749  | 57    |

**Table 4-8. Summary of Livestock Count Estimates in Subwatershed 06010208010.** According to the Census of Agriculture, "Cattle" includes heifers, heifer calves, steers, bulls and bull calves.

| County     | INVENTORY                       |                                 | REMOVAL RATE                          |                                   |
|------------|---------------------------------|---------------------------------|---------------------------------------|-----------------------------------|
|            | Forest Land<br>(thousand acres) | Timber Land<br>(thousand acres) | Growing Stock<br>(million cubic feet) | Sawtimber<br>(million board feet) |
| Cumberland | 320.3                           | 320.3                           | 5.9                                   | 22.5                              |

**Table 4-9. Forest Acreage and Annual Removal Rates (1987-1994) in Subwatershed 06010208010.**

| CROPS                                  | TONS/ACRE/YEAR |
|--|----------------|
| Forest Land (Not Grazed)               | 0.00           |
| Farmsteads and Ranch Headquarters      | 0.23           |
| Grass (Pastureland)                    | 0.40           |
| Grass, Forbs, Legumes (Mixed (Pasture) | 0.26           |
| Forest Land (Grazed)                   | 0.00           |
| Corn (Row Crops)                       | 3.77           |
| Soybeans (Row Crops)                   | 6.26           |
| Other Vegetable and Truck Crop         | 14.05          |
| Grass (Hayland)                        | 3.05           |
| Legume Grass (Hayland)                 | 0.16           |
| Legume (Pastureland)                   | 0.15           |

**Table 4-10. Annual Estimated Total Soil Loss in Subwatershed 06010208010.**